Available online at www.sciencedirect.com
SCIENCE DIRECT®
Environment International 28 (2003) 821–826
ELSEVIER
ENVIRONMENT INTERNATIONAL
www.elsevier.com/locate/envint

Contents Volume 28

Volume 28, Numbers 1–2, April 2002

Measurements of major ion concentration in settled coarse particles and aerosols at a semiarid rural site in India
G.S. Satsangi, A. Lakhani, P. Khare, S.P. Singh, K.M. Kumari, S.S. Srivastava 1

Framework for the uncertainty assessment in the Impact Pathway Analysis with an application on a local scale in Spain
G.W. Sonnemann, Y. Pla, M. Schuhmacher, F. Castells 9

PCDD/F levels in the neighbourhood of a municipal solid waste incinerator after introduction of technical improvements in the facility
J.L. Domingo, M. Schuhmacher, M.C. Agramunt, J.M. Llobet, J. Rivera, L. Müller 19

Removal of dyes from an artificial textile dye effluent by two agricultural waste residues, corncob and barley husk
T. Robinson, B. Chandran, P. Nigam 29

Potential source of asbestos in non-asbestos textile manufacturing company
I.J. Yu, J.K. Choi, S.-K. Kang, H.K. Chang, Y.H. Chung, J.H. Han, K.S. Song, Y.M. Lee, H.K. Chung 35

Risk assessment at hazardous waste-contaminated sites with variability of population characteristics
Q. Zhao, J.J. Kaluarachchi 41

Characterization of water-soluble ion species in urban ambient particles
J.J. Lin 55

Leaching of nickel and copper from soil contaminated by mettallurgical dust
V. Barcan 63

Bioaccumulation of lead in *Xenopus laevis* tadpoles from water and sediment
D.W. Berzins, K.J. Bundy 69

Determination of total petroleum hydrocarbons and heavy metals in soils within the vicinity of facilities handling refined petroleum products in Lagos metropolis
A.A. Adeniyi, J.A. Afolabi 79

Transuranic biokinetic parameters for marine invertebrates—a review
T.P. Ryan 83

Radon level in dwellings and its correlation with uranium and radium content in some areas of Himachal Pradesh, India
S. Singh, A. Kumar, B. Singh 97

Transfer of dioxin risk between nine major municipal waste incinerators in Taiwan
H.-w. Ma, Y.-L. Lai, C.-C. Chan 103

Heavy metal concentrations in *Squilla mantis* (L.) (Crustacea, Stomatopoda) from the Gulf of Cádiz: Evaluation of the impact of the Aznalcollar mining spill
J. Blasco, A.M. Arias, V. Sáenz 111

Correlations between speciation of Cd, Cu, Pb and Zn in sediment and their concentrations in total soft tissue of green-lipped mussel *Perna viridis* from the west coast of Peninsular Malaysia
C.K. Yap, A. Ismail, S.G. Tan, H. Omar 117

Phytomonitoring the unique colonization of oil-contaminated saline environment by *Limoniastrum monopetalum* (L.) Boiss in Egypt
H.S. Hussein, N. Terry 127

Volume 28, Number 3, July 2002

Emission impossible?: The challenge of quantifying sources and releases of POPs into the environment
K. Breivik, R. Alcock 137

Characterisation of DNA probes for the analysis of metallothionein gene expression in the bank vole *(Clethrionomys glareolus)*
D. Savva, C. Garcia-Aljaro, K.P. Lawes, R. Świergosz-Kowalewska 139

Sr and Pb isotopes as environmental indicators in environmental studies
G. Charalampides, O. Manoliadis 147

Validity of detection of microbial growth in buildings by trained dogs
E. Kauhanen, M. Harri, A. Nevalainen, T. Nevalainen 153

Levels of metals in soils of Alcalá de Henares, Spain: Human health risks
S. Granero, J.L. Domingo 159

Variation of nutrient and metal concentrations in aquatic macrophytes along the Rio Cachoeira in Bahia (Brazil)
A. Klumpp, K. Bauer, C. Franz-Gerstein, M. de Menezes 165

Sediment–dissolved organic matter equilibrium partitioning of pentachlorophenol: The role of humic matter
N. Paaso, J. Peuravuori, T. Lehtonen, K. Pihlaja 173

Remobilisation of ^{109}Cd, ^{65}Zn and ^{54}Mn from freshwater-labelled river sediments when mixed with seawater
W.J.F. Standring, D.H. Oughton, B. Salbu 185

Exhaled NH_3 and excreted NH_4^+ in children in unpolluted or urban environments
M. Giroux, F. Brémont, J.P. Salles, E. Rey, J.P. Della Massa, J. Ferriéres 197

An input–output balance study for PCBs in humans
C.-Y. Juan, G.O. Thomas, A.J. Sweetman, K.C. Jones 203

PROGRESS IN ENVIRONMENTAL SCIENCE REVIEWS

Environmental fate of alkylphenols and alkylphenol ethoxylates—a review
G.-G. Ying, B. Williams, R. Kookana 215

Volume 28, Number 4, September 2002

Atmospheric NO_2 and CO concentration in Lima, Peru
Y. Tashiro, T. Taniyama 227

Arsenic contamination of the environment: A new perspective from central-east India
P.K. Pandey, S. Yadav, S. Nair, A. Bhui 235

Scenario–model–parameter: A new method of cumulative risk uncertainty analysis
D.J. Moschandreas, S. Karuchit 247

Partitioning of metals in sediments from the Odiel River (Spain)
J. Morillo, J. Usero, I. Gracia 263

Monitoring of cadmium in "on" and "off" date palms
A.E. Pillay, J.R. Williams, M.O. El Mardi, S.M. Hassan, A. Al-Hamdi 273

Selection of a suitable mobile phase for the speciation of four arsenic compounds in drinking water samples using ion-exchange chromatography coupled to inductively coupled plasma mass spectrometry
L.S. Milstein, A. Essader, E.D. Pellizzari, R.A. Fernando, O. Akinbo 277

Naphthalene and β-naphthoflavone effects on *Anguilla anguilla* L. hepatic metabolism and erythrocytic nuclear abnormalities
M. Pacheco, M.A. Santos 285

Minor and trace elements in the shell of *Patella aspera* (Röding 1798)
A. Cravo, P. Foster, M.J. Bebianno 295

Polynuclear aromatic hydrocarbons, phenols, and trace metals in selected soil profiles and plant bioindicators in the Holy Cross Mountains, South-Central Poland
Z.M. Migaszewski, A. Gałuszka, P. Pasławski 303

Determination of lead, chromium and zinc in sediments from an urbanized river in Mauritius
R.T. Ramessur, T. Ramjeawon 315

Distribution of Cd, Cu, Fe, Mn, Pb and Zn in selected tissues of juvenile whales stranded in the SE Gulf of California (Mexico)
J. Ruelas-Inzunza, F. Páez-Osuna 325

Volume 28, Number 5, November 2002

Breast cancer incidence and exposure to pesticides among women originating from Jaipur
V. Mathur, P. Bhatnagar, R.G. Sharma, V. Acharya, R. Sexana 331

Biological activity and environmental impact of anionic surfactants
T. Cserháti, E. Forgács, G. Oros 337

Element mobility during metasomatism of granitic rocks in the Saint-Chély d'Apcher area (Lozère, France)
M.El. Maghraoui, J.L. Joron, L. Raimbault, M. Tœuil 349

Inhibition of oocyte development in Japanese medaka (Oryzias latipes) exposed to di-2-ethylhexyl phthalate
E.-J. Kim, J.-W. Kim, S.-K Lee 359

Tropical fruit trees as bioindicators of industrial air pollution in southeast Brazil
R.M. Moraes, A. Klumpp, C.M. Furlan, G. Klumpp, M. Domingos, M.C.S. Rinaldi, I.F. Modesto 367

A pilot study to assess ground-level ambient air concentrations of fine particles and carbon monoxide in urban Guatemala
D.G. Shendell, L.P. Naeher 375

Effect of shelterbelt on two kinds of soils on the transformation of organic matter
L. Szajdak, V. Maryganova, T. Meysner, L. Tychinskaja 383

Estimation of sources of total phosphorus in a river basin and assessment of alternatives for river pollution reduction
A. Drolc, J. Zagorc Koncan 393

Correlation of the partitioning of dissolved organic matter fractions with the desorption of Cd, Cu, Ni, Pb and Zn from 18 Dutch soils
C.A. Impellitteri, Y. Lu, J.K. Saxe, H.E. Allen, W.J.G.M. Peijnenburg 401

An evaluation of a river health using the index of biological integrity along with relations to chemical and habitat conditions
K.-G. An, S.S. Park, J.-Y. Shin 411

Accumulation factors of mercury in mushrooms from Zaborski Landscape Park, Poland
J. Falandysz, K. Lipka, M. Gucia, M. Kawano, K. Strumnik, K. Kannan 421

Effects of pyrethroid insecticides and estrogen on WNT10B proto-oncogene expression
K. Kasat, V. Go, B.G.T. Pogo 429

Trace metal occurance and distribution in sediments and mangroves, Pumicestone region, southeast Queensland, Australia
M. Preda, M.E. Cox 433

Volume 28, Number 6, December 2002

Nature and origin of multicomponent aerial emissions of the copper–nickel smelter complex
V. Barcan 451

Removal of NOM in the different stages of the water treatment process
A. Matilainen, N. Lindqvist, S. Korhonen, T. Tuhkanen 457

Concentrations of Cu and Pb in the offshore and intertidal sediments of the west coast of Peninsular Malaysia
C.K. Yap, A. Ismail, S.G. Tan, H. Omar 467

Post-irrigation impact of domestic sewage effluent on composition of soils, crops and ground water—A case study
R.K. Yadav, B. Goyal, R.K. Sharma, S.K. Dubey, P.S. Minhas 481

Presence of *erm* genes among macrolide-resistant Gram-positive bacteria isolated from Danish farm soil
L.B. Jensen, Y. Agersø, G. Sengeløv 487

Cadmium desorption in sand
Y.T. Tran, D.A. Barry, K. Bajracharya 493

A preliminary study of ozone trend and its impact on environment in Hong Kong
W. Lu, X. Wang, W. Wang, A.Y.T. Leung, K. Yuen 503

Cypress tree (*Cupressus semervirens* L.) bark as an indicator for heavy metal pollution in the atmosphere of Amman City, Jordan
T. El-Hasan, H. Al-Omari, A. Jiries, F. Al-Nasir 513

Trace determination of caffeine in surface water samples by liquid chromatography–atmospheric pressure chemical ionization–mass spectrometry (LC–APCI–MS)
P.R. Gardinali, X. Zhao 521

PROGRESS IN ENVIROMENTAL SCIENCE REVIEWS

Environmental risk assessment and the intrusion of bias
D.J. Ball 529

Occurrence and fate of hormone steroids in the environment
G.-G. Ying, R.S. Kookana, Y.-J. Ru 545

Volume 28, Number 7, January 2003

Risk assessment of sensory irritants in indoor air—a case study in a French school
R. Meininghaus, A. Kouniali, C. Mandin, A. Cicolella 553

Levels and congener pattern of polychlorinated biphenyls in the blubber of the Mediterranean bottlenose dolphins *Tursiops truncatus*
M.M. Storelli, G.O. Marcotrigiano 559

Cancer cluster among police detachment personnel
C. van Netten, R.H. Brands, S.A. Hoption Cann, J.J. Spinelli, S.B. Sheps 567

Photo-oxidation products of petroleum hydrocarbons in the Eastern Red Sea coastal waters
S.S. Al-Lihaibi 573

Pollution load of Pb, Zn, and Cd and mineralogy of the recent sediments of Jordan River/Jordan
K.M. Banat, F.M. Howari 581

Bacterial antibiotic resistance levels in Danish farmland as a result of treatment with pig manure slurry
G. Sengeløv, Y. Agersø, B. Halling-Sørensen, S.B. Baloda, J.S. Andersen, L.B. Jensen 587

A holistic approach to Concentration Assessment of hazards in the risk assessment of landfill leachate
T.E. Butt, K.O.K. Oduyemi 597

Health assessment of a marine bivalve *Ruditapes decussatus* from the Gulf of Gabès (Tunisia)
A. Hamza-Chaffai, J. Pellerin, J.C. Amiard 609

Distribution of heavy metals in sediments of Mwanza Gulf of Lake Victoria, Tanzania
M.A. Kishe, J.F. Machiwa 619

Lead and cadmium levels in coastal benthic algae (seaweeds) of Tenerife, Canary Islands
G. Lozano, A. Hardisson, A.J. Gutiérez, M.A. Lafuente 627

Effects of 17α-ethinylestradiol on the reproduction of the cladoceran species *Ceriodaphnia reticulata* and *Sida crystallina*
W. Jaser, G.F. Severin, U. Jütting, I. Jüttner, K.-W. Schramm, A. Kettrup 633

Heavy metals in sediments from Makupa and Port–Reitz Creek systems: Kenyan Coast
A.W. Muohi, J.M. Onyari, J.G. Omondi, K.M. Mavuti 639

Particulate and dissolved elemental loads in the Kuji River related to discharge rate
T. Nagano, N. Yanase, K. Tsuduki, S. Nagao 649

Characteristics of the PAH emissions from the incineration of livestock wastes with/without APCD
S.-J. Chen, L.-T. Hsieh, S.-C. Chiu 659

Volume 28, Number 8, March 2003

Ecotoxicology and environmental safety at the beginning of the Third Millennium: Trends, threats and challenges
I. Twardowska 669

The changes of T-PAH levels and health status of mussels in İzmit bay (Turkey) after Marmara earthquake and subsequent refinery fire
O.S. Okay, L. Tolun, F. Telli-Karakoç, V. Tüfekçi, H. Tüfekçi, A. Olgun, E. Morkoç 671

Toxic risk of surface water pollution—six years of experience
P. Soldán 677

Activity of glutathione S-transferase in *Spodoptera exigua* larvae exposed to cadmium and zinc in two subsequent generations
A. Kafel, K. Bednarska, M. Augustyniak, I. Witas, E. Szuliñska 683

An assessment of the toxicity of pyridinium chlorides and their biodegradation intermediates
E. Grabińska-Sota, J. Kalka 687

Input of heavy metals to the forest floor as a result of Cracow urban pollution
K. Sawicka-Kapusta, M. Zakrzewska, K. Bajorek, J. Gdula-Argasińska 691

The problem of allergy in ecotoxicology of polymeric materials
B. Kuzminov, V. Turkina, L. Shafran 699

Diet monitoring for assessment of human exposure to environmental pollutants
K.A. Skibniewska 703

Biomarkers and community indices as complementary tools for environmental safety
P. Vasseur, C. Cossu-Leguille 711

Habitat function of agricultural soils as affected by heavy metals and polycyclic aromatic hydrocarbons contamination
B. Maliszewska-Kordybach, B. Smreczak 719

Water and sediment toxicity assessment by use of behavioural responses of medicinal leeches
L. Petrauskienė 729

Effects of cadmium and zinc on larval growth and survival in the ground beetle, *Pterostichus oblongopunctatus*
T.J. Mozdzer, P. Kramarz, A. Piśkiewicz, M. Niklińska 737

Imposex as a biomonitoring tool for marine pollution by tributyltin: Some further observations
V. Axiak, D. Micallef, J. Muscat, A. Vella, B. Mintoff 743

Determination of potentially bioaccumulating complex mixtures of organochlorine compounds in wastewater: A review
M. Concepción Contreras López 751

Toxicity of copper in sewage sludge
B. Fjällborg, G. Dave 761

Novel approach to monitoring of the soil biological quality
J. Hofman, J. Bezchlebová, L. Dušek, L. Doležal, I. Holoubek, P. Anděl, A. Ansorgová, S. Malý 771

Effect of heavy metals and PAH on soil assessed via dehydrogenase assay
N. Irha, J. Slet, V. Petersell 779

Sorption of metals onto natural organic matter as a function of complexation and adsorbent–adsorbate contact mode
I. Twardowska, J. Kyziol 783

Environmental risk assessment of metals: Tools for incorporating bioavailability
C.R. Janssen, D.G. Heijerick, K.A.C. De Schamphelaere, H.E. Allen 793

Toxicity assessment of wood preservatives
M. Łebkowska, M. Załęska-Radziwiłł, A. Rutkowska-Narożniak, S. Kobiela 801

Author index for Volume 28 803

Subject index for Volume 28 809

Contents Volume 28 821